

Amendments to the Claims

The below listing of claims replaces all prior versions and listings of claims in this application.

1. (Currently Amended) ~~A method of providing service selection at a mobile terminal, the method comprising:~~

transmitting a plurality of services, each of the services comprising one or more service components, at least some of the service components having different media formats, the service components for a given service being transmitted in a time-sliced manner on a given channel;

generating service identification data relating service components to services on that channel;

repeatedly transmitting the service identification data on the channel; and

repeatedly transmitting information relating to the timing of transmissions of the service identification data,

wherein the method is a method of providing service selection for a mobile terminal.

2. (Currently Amended) The A method as claimed in claim 1, in which the generating service identification data relating service components to services on that channel step includes generating data identifying the media format of each service component.

3. (Currently Amended) The A method as claimed in claim 1, in which the channel is at a given frequency.

4. (Currently Amended) The A method as claimed in claim 1, wherein the service components for a given service are transmitted in a time-sliced manner at a given frequency; wherein the generating service identification data relating service components to services on that channel step comprises generating service identification data relating service

components at a given frequency to services and identifying the media format of each service component; and

wherein repeatedly transmitting the service identification data on the channel comprises repeatedly transmitting at the frequency carrying the corresponding service components.

5. (Currently Amended) ~~A~~ The method as claimed in claim 1, comprising transmitting ~~timing the~~ information relating to the timing of transmissions of the service identification data in a network different ~~than~~ to that used for the transmitting the service identification data on the channel ~~information transmitting step~~.

6. (Currently Amended) ~~The~~ The A method as claimed in claim 5, wherein transmitting the timing information relating to the timing of transmissions of the service identification data ~~transmitting step~~ is performed in response to an inquiry ~~enquiry~~ from a mobile terminal.

7. (Currently Amended) ~~The~~ The A method as claimed in claim 6, wherein transmitting the timing information relating to the timing of transmissions of the service identification data ~~transmitting step~~ is performed in response to an inquiry ~~enquiry~~ transmitted from the mobile terminal using the different network.

8. (Currently Amended) ~~The~~ The A method as claimed in claim 1, comprising using the service identification data to generate a service guide for one or more services.

9. (Currently Amended) ~~The~~ The A method as claimed in claim 1, further comprising:
receiving the service identification data at a mobile terminal; and
at the mobile terminal, hierarchically arranging the services including the service components from the received service identification data.

10. (Currently Amended) A system comprising:

~~means for transmitting~~ a transmitter configured to transmit a plurality of services, each of the services comprising one or more service components, at least some of the service components having different media formats, the service components for a given service being arranged to be transmitted in a time-sliced manner on given channel;

~~means for transmitting~~ a generator configured to generate service identification data relating service components on the channel to services;

a transmitter configured to repeatedly transmit ~~means for repeatedly transmitting~~ the service identification data on the channel; and

a transmitter configured to repeatedly transmit ~~means for repeatedly transmitting~~ information relating to the timing of transmissions of the service identification data; and wherein the system is a system for providing service selection for a mobile terminal ~~whereby a mobile terminal can use the timing information to tune to an appropriate channel at an appropriate time to decode service identification data relating to a required service and subsequently obtain required service components thereof.~~

11. (Currently Amended) The A system as claimed in claim 10, in which the channel is on a given frequency.

12. (Currently Amended) ~~A~~ The system as claimed in claim 10, in which the generator ~~generating service identification data means includes means for generating~~ includes a generator configured to generate data identifying the media format of each service component.

13. (Currently Amended) The A system as claimed in claim 10, wherein the service components for a given service are arranged to be transmitted in a time-sliced manner at a given frequency;

wherein the transmitter configured to transmit ~~means for transmitting~~ service identification data comprises a transmitter configured to transmit ~~means for transmitting~~ service identification data relating service components at a given frequency to services and ~~identifying~~ identify the media format of each service component; and

wherein the transmitter configured to repeatedly transmit means for repeatedly transmitting the service identification data comprises a transmitter configured to repeatedly transmit means for repeatedly transmitting the service identification data at the frequency carrying the corresponding service components;
~~whereby a mobile terminal can use the timing information to tune to an appropriate frequency at an appropriate time to decode service identification data relating to a required service and subsequently obtain required service components thereof.~~

14. (Currently Amended) ~~A~~ The system as claimed in claims 10, comprising a transmitter configured to transmit means for transmitting the information relating to the timing of transmissions of the service identification data ~~timing information~~ in a network different to than that used for the service identification data information transmission.

15. (Currently Amended) ~~A~~ The system as claimed in claim 14, wherein the information relating to the timing of transmission of the service identification data ~~timing information~~ is transmitted in response to an ~~enquiry~~ inquiry from the mobile terminal.

16. (Currently Amended) The ~~A~~ system as claimed in claim 15, wherein the ~~enquiry~~ inquiry from the mobile terminal uses the different network.

17. (Currently Amended) The ~~A~~ system as claimed in claim 10, comprising a mobile terminal arranged to use the service identification data to generate a service guide for one or more services.

18. (Currently Amended) The ~~A~~ system as claimed in claim 10, in which ~~a~~ ~~or~~ the mobile terminal is arranged to receive the service identification data, and to use it to arrange hierarchically the services including the service components.

19. (Currently Amended) ~~A mobile terminal,~~ An apparatus comprising:

a receiver configured to receive ~~means for receiving~~ at least one repeated transmission of information relating to the timing of transmissions of service identification data;

a tuner configured to use ~~means for using~~ the information relating to the timing of transmissions of the service identification data ~~timing information~~ to tune to an appropriate channel at an appropriate time to decode service identification data, the service identification data relating service components on the channel to services; and

a processor configured to subsequently obtain ~~means for subsequently obtaining~~, from service components transmitted in a time-sliced manner on the channel, required service components of a service, wherein the apparatus is a mobile terminal.

20. (Currently Amended) ~~A mobile terminal~~ The apparatus as claimed in claim 19, in which the service identification data relates service components on the channel to services.

21. (Currently Amended) The apparatus ~~A mobile terminal~~ as claimed in claim 19, in which the channel is at a given frequency.

22. (Currently Amended) ~~A mobile terminal~~ The apparatus as claimed in claim 19, wherein the

tuner configured to use ~~means for using~~ the timing information relating to the timing of transmissions of the service identification data to tune comprises a tuner configured to use ~~means for using~~ the timing information relating to the timing of transmissions of the service identification data to tune to an appropriate frequency at an appropriate time to decode service identification data, the service identification data relating service components at the frequency to services and ~~identifying~~ identify the media format of each service component; and

wherein the processor configured to subsequently maintain ~~means for subsequently obtaining~~ the required service components of a service comprises a processor configured to obtain ~~means for obtaining~~ the service components from service components transmitted in a time-sliced manner at the given frequency.

23. (Currently Amended) ~~A method of operating a mobile terminal,~~ comprising:
receiving at least one repeated transmission of information relating to the timing of transmissions of service identification data;
using the ~~timing~~ information relating to the timing of transmissions of the service identification data to tune to an appropriate channel at an appropriate time to decode service identification data, the service identification data relating service components at a the frequency to services; and
subsequently obtaining, from service components transmitted in a time-sliced manner on the channel, required service components of a service, wherein the method is a method of operating a mobile terminal.
24. (Currently Amended) The A method as claimed in claim 23, in which the service identification data relates service components on the channel to services.
25. (Currently Amended) The A method as claimed in claim 23, 22 in which the channel is at a given frequency.
26. (Currently Amended) The A method as claimed in claim 23,
wherein using the ~~timing~~ information relating to the timing of transmissions of the service identification data comprises using the ~~timing~~ information relating to the timing of transmissions of the service identification data to tune to an appropriate frequency at an appropriate time to decode service identification data, the service identification data relating service components at the frequency to services and identifying the media format of each service component; and
~~the step of~~ subsequently obtaining required service components of a service comprises obtaining the required service components of a service from service components transmitted in a time-sliced manner at the given frequency.

27. (Currently Amended) The A method as claimed in claim 26, comprising using the service identification data to generate a service guide for one or more services.

28. (Currently Amended) A method ~~of providing service selection data on a display~~, comprising:

receiving service identification data relating service components at a given frequency to services and relating services at the given frequency to service sets;

hierarchically arranging services including the appropriate service components; and

displaying the different service sets, services or service components, wherein the method is a method of providing service selection data on a display.

29. (Currently Amended) The A method as claimed in claim 23, in which hierarchically ~~the~~ arranging ~~step~~ services comprises using data items describing the various service components for ~~categorising~~ categorizing received content items.

30. (Currently Amended) The A method as claimed in claim 29, in which the content items are categorised categorized according to content type.

31. (Currently Amended) The A method as claimed in claim 23, comprising arranging the services in an order according to their timing.

32. (Currently Amended) A method ~~of receiving a content item~~, comprising:

providing service selection data using the method of claim 23; and

following selection of a displayed service set, service or service component, tuning to the correct channel at the appropriate time when the selected service set, service or service component is being transmitted.

33. (Currently Amended) ~~A mobile terminal~~ An apparatus comprising:

a receiver configured ~~means arranged~~ to receive service identification data relating service components on a given channel to services and relating services on the given channel to service sets;

a controller configured ~~arranged~~ to order hierarchically services including the appropriate service components; and

a display configured ~~means arranged~~ to display the different service sets, services or service components, wherein the apparatus comprises a mobile terminal.

34. (Currently Amended) The apparatus ~~A mobile terminal~~ as claimed in claim 33, in which the channel is at a given frequency.

35. (Currently Amended) The apparatus ~~A mobile terminal~~ as claimed in claim 33, comprising wherein the a receiver configured ~~means arranged~~ to receive service identification data relating service components at a given frequency to services and relating services at the given frequency to service sets.

36. (Currently Amended) The apparatus ~~A mobile terminal~~ as claimed in claim 33, in which the controller is configured ~~arranged~~ to use data items describing the various service components to ~~eatergorise~~ categorize received content items.

37. (Currently Amended) ~~A mobile terminal~~ The apparatus as claimed in claim 36, in which the content items are ~~eatergorised~~ categorized according to content type.

38. (Currently Amended) ~~A mobile terminal~~ The apparatus as claimed in claim ~~33~~ 32, in which the controller ~~eatergorises~~ categorizes the services in an order according to their timing.

39. (Currently Amended) ~~A mobile terminal~~ The apparatus as claimed in claim 33, arranged to be responsive to ~~the~~ selection of a displayed service set, service or service component, to tune to the correct channel at the appropriate time when the selected service set, service or service component is being transmitted.

40. (New) A computer program product comprising a computer readable medium and comprising:

program code in the computer readable medium for transmitting a plurality of services, each of the services comprising one or more service components, at least some of the service components having different media formats, the service components for a given service being transmitted in a time-sliced manner on a given channel;

program code in the computer readable medium for generating service identification data relating service components to services on that channel;

program code in the computer readable medium for repeatedly transmitting the service identification data on the channel; and

program code in the computer readable medium for repeatedly transmitting information relating to the timing of transmissions of the service identification data.

41. (New) A computer program product comprising a computer readable medium and comprising:

program code in the computer readable medium for receiving at least one repeated transmission of information relating to the timing of transmissions of service identification data;

program code in the computer readable medium for using the information relating to the timing of transmissions of the service identification data to tune to an appropriate channel at an appropriate time to decode service identification data, the service identification data relating service components at a frequency to services; and

program code in the computer readable medium for subsequently obtaining, from service components transmitted in a time-sliced manner on the channel, required service components of a service.

42. (New) A computer program product comprising a computer readable medium and comprising:

program code in the computer readable medium for receiving service identification data relating service components at a given frequency to services and relating services at the given frequency to service sets;

program code in the computer readable medium for hierarchically arranging services including the appropriate service components; and

program code in the computer readable medium for displaying the different service sets, services or service components.